

Notice of Allowability

Application No.

10/670,232

Examiner

Elizabeth A. Rielley

Applicant(s)

PARK ET AL.

Art Unit

2879

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 3/10/06.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Response to Amendment

Amendment filed 3/10/06 has been entered and considered by the Examiner. Currently, claims 1-20 are pending in the instant application.

Allowable Subject Matter

Claims 1-20 are allowed.

Regarding claim 1, the reference of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 1, and specifically comprising the limitation an organic light emitting diode (OLED), comprising: a substrate having a first electrode layer formed thereon; an insulator layer formed on the substrate and forming a channel in a predetermined pattern; an organic polymer layer formed based on the channel and having at least an emission layer; a barrier formed at either side of the insulator layer for preventing ink for the organic polymer layer from running out from both ends of the channel; and a second electrode layer formed on the polymer organic layer.

Regarding claims 2-16, claims 2-16 are allowable for the reasons given in claim 1 due to their dependency status from claim 1.

Regarding claim 17, the reference of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 17, and specifically comprising the limitation an

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organic light emitting diode (OLED), comprising: a substrate having a first electrode layer formed thereon; an insulator layer formed on the substrate and forming a channel in a predetermined pattern; an organic polymer formed based on the channel and having at least an emission layer; a barrier formed on the insulator layer; and a second electrode layer formed on the organic polymer layer; wherein the barrier comprises at least one first barrier for preventing ink for the organic polymer layer from running out of the channel; and at least one second barrier for preventing the ink from running in from neighboring channels.

Regarding claims 18 and 19, claims 18 and 19 are allowable for the reasons given in claim 17 due to their dependency status from claim 17.

Regarding claim 20, the reference of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 20, and specifically comprising the limitation an organic light emitting diode (OLED), comprising: a substrate having a first electrode layer formed thereon; an insulator layer formed on the substrate and forming a channel in a predetermined pattern; an organic polymer formed based on the channel and having at least an emission layer; a barrier formed on the insulator layer for preventing ink for the organic polymer layer from running out of the channel; a second electrode layer formed on the organic polymer layer; and at least one blocking member for interrupting outflow of the organic polymer layer and provided substantially at a center of two ends of each channel; wherein said at least one blocking member includes at least two elements in a wedge shape, centers of the wedge being opposite to each other.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth A. Rielley whose telephone number is 571-272-2117. The examiner can normally be reached on Monday - Friday 7:30 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Elizabeth Rielley

Examiner
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M. Sgo 4/2/06
MARICELI SANTIAGO
PRIMARY EXAMINER